

Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 116772		APPLICATION NO. New U.S. Application 10/632,861	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT(S) Shin-ichi NAKAO et al.			
				FILING DATE August 4, 2003			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
	1	JP A 3-98632 w/ abst.	Apr. 24, 1991	Japan	—	—	
	2	JP A 4-334531 w/ abst.	Nov. 20, 1992	Japan	—	—	
	3	JP A 5-31343 w/ abst.	Feb. 9, 1993	Japan	—	—	
	4	JP A 5-237352 w/ abst.	Sept. 17, 1993	Japan	—	—	
	5	JP A 6-246141 w/ abst.	Sept. 6, 1994	Japan	—	—	
	6	JP A 2001-860 w/ abst.	Jan. 9, 2001	Japan	—	—	
	7	JP A 11-130827 w/ abst.	May 18, 1999	Japan	—	—	
	8	JP A 61-89236 w/ abst.	May 7, 1986	Japan	—	—	
	9	JP A 2002-226531 w/ abst.	Aug. 14, 2002	Japan	—	—	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
EXAMINER <div style="font-size: 1.5em; font-family: cursive;">H. T. Le</div>				DATE CONSIDERED <div style="font-size: 1.5em; font-family: cursive;">07/04</div>			
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Date: August 4, 2003